

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1011.004000D		APPLICATION NO. 08/474,388	
				APPLICANTS SPRINGER <i>et al.</i>			
				FILING DATE June 7, 1995		GROUP 1813 <span style="margin-left: 20px;">1644</span>	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<div style="border: 2px solid black; border-radius: 50%; padding: 10px; display: inline-block;">           MAIL ROOM            FEB 6 1996            PAT. &amp; TRADEMARK OFF.         </div>	AA1	5,284,931	02/08/94	Springer <i>et al.</i>			
	AB1	5,475,091	12/12/95	Springer <i>et al.</i>			
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
TC	AL1	EP 0 319 815	06/14/89	Europe			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
TC	AR	1	Alexander, E.L. <i>et al.</i> , "Cutaneous Manifestations of Sjögren's Syndrome," in: <i>Immunologic Diseases of the Skin</i> , Jordon, R.E. (ed.), Norwalk, CT: Appleton & Lange, pp. 401-408 (1991).
TC	AS	1	Anderson, D.C. <i>et al.</i> , "Leukocyte LFA-1, OKM1, p150,95 deficiency syndrome: functional and biosynthetic studies of three kindreds," <i>Fed. Proceedings</i> 44(10):2671-2677 (July 1985).
TC	AT	1	Anderson, D.C. <i>et al.</i> , "Leukocyte Adhesion Deficiency: An Inherited Defect in the Mac-1, LFA-1, and p150,95 Glycoproteins." <i>Ann. Rev. Med.</i> 38:175-194 (1987).

EXAMINER <i>Thomas Cunningham</i> <span style="margin-left: 20px;">12/11/00 PB</span>	DATE CONSIDERED <span style="margin-left: 20px;">4/11/97</span>
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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TC	AR	2	Bashir, R. <i>et al.</i> , "Expression of LFA-1/ICAM-1 in CNS lymphomas: possible mechanism for lymphoma homing into the brain," <i>J. Neuro-Oncol.</i> 12:103-110 (1992).
TC	AS	2	Boyd, A.W. <i>et al.</i> , "Intercellular adhesion molecule 1 (ICAM-1) has a central role in cell-cell contact-mediated immune mechanisms," <i>Proc. Natl. Acad. Sci. USA</i> 85:3095-3099 (May 1988).
TC	AT	2	Byers, V.S. <i>et al.</i> , "Use of an Anti-Pan T-Lymphocyte Ricin A Chain Immunotoxin in Steroid-Resistant Acute Graft-Versus-Host Disease," <i>Blood</i> 75(7):1426-1432 (April 1, 1990).

EXAMINER

Thom Custer

12/11/00 MC

DATE CONSIDERED

4/11/97

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TC	AR	3	Colonno, R.J. <i>et al.</i> , "Isolation of a Monoclonal Antibody That Blocks Attachment of the Major Group of Human Rhinoviruses," <i>J. Virol.</i> 57(1):7-12 (January 1986).
TC	AS	3	Cooper, K.D. <i>et al.</i> , "Immunologic Features of Psoriasis, in: <i>Immunologic Diseases of the Skin</i> , Jordon, R.E. (ed.), Norwalk, CT: Appleton & Lange, pp. 611-619 (1991).
TC	AT	3	Cosimi, A.B. <i>et al.</i> , "In Vivo Effects Of Monoclonal Antibody To ICAM-1 (CD54) In Nonhuman Primates With Renal Allografts," <i>J. Immunol.</i> 144(12):4604-4612 (June 15, 1990).

EXAMINER <i>Therese C. [Signature]</i>	DATE CONSIDERED <i>Mr 12/11/00</i>	DATE CONSIDERED <i>7/11/97</i>
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TC	AR	4	Cunningham, C. <i>et al.</i> , "Antibody engineering -- how to be human," <i>TIBTECH</i> 10 (April 1992).
TC	AS	4	Dantal, J. <i>et al.</i> , "Use of monoclonal antibodies in human transplantation," <i>Curr. Opin. Immunol.</i> 3:740-747 (1991).
TC	AT	4	Davignon, D. <i>et al.</i> , "Lymphocyte function-associated antigen 1 (LFA-1): A surface antigen distinct from Lyt-2,3 that participates in T lymphocyte-mediated killing," <i>Proc. Natl. Acad. Sci. USA</i> 78:4535-4539 (July 1981).

EXAMINER

Thomas Custer

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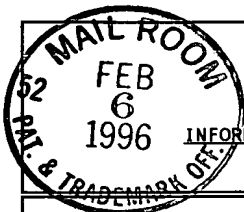
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TC	AR	5	Dustin, M.L. <i>et al.</i> , "Adhesion Of T Lymphoblasts To Epidermal Keratinocytes Is Regulated By Interferon $\gamma$ And Is Mediated By Intercellular Adhesion Molecule 1 (ICAM-1)," <i>J. Exp. Med.</i> 167:1323-1340 (April 1988).
TC	AS	5	Dustin, M.L. <i>et al.</i> , "Induction By IL 1 And Interferon- $\gamma$ : Tissue Distribution, Biochemistry, And Function Of A Natural Adherence Molecule (ICAM-1)," <i>J. Immunol.</i> 137(1):245-254 (July 1, 1986).
TC	AT	5	Dustin, M.L. <i>et al.</i> , "Lymphocyte Function-associated Antigen-1 (LFA-1) Interaction with Intercellular Adhesion Molecule-1 (ICAM-1) is One of At Least Three Mechanisms for Lymphocyte Adhesion to Cultured Endothelial Cells," <i>J. Cell Biol.</i> 107:321-331 (July 1988).

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TC	AR	6	Dustin, M.L. <i>et al.</i> , "Purified Lymphocyte Function-Associated Antigen 3 Binds To CD2 And Mediates T Lymphocyte Adhesion," <i>J. Exp. Med.</i> 165:677-692 (March 1987)
TC	AS	6	Dustin, M.L. <i>et al.</i> , "Supergene families meet in the immune system," <i>Immunol. Today</i> 9(7&8):213-215 (1988).
TC	AT	6	Dustin, M.L. <i>et al.</i> , "T-cell receptor cross-linking transiently stimulates adhesiveness through LFA-1," <i>Nature</i> 341:619-624 (October 19, 1989).

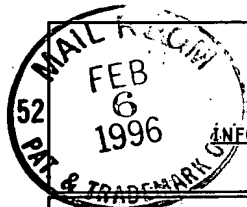
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TC	AR	Z	Fischer, A. <i>et al.</i> , "Role Of The LFA-1 Molecule In Cellular Interactions Required For Antibody Production In Humans," <i>J. Immunol.</i> 136(9):3198-3203 (May 1, 1986).
TC	AS	Z	Flavin, T. <i>et al.</i> , "Monoclonal Antibodies Against Intercellular Adhesion Molecule 1 Prolong Cardiac Allograft Survival in Cynomolgus Monkeys," <i>Transplant. Proc.</i> 23(1):533-534 (February 1991).
TC	AT	Z	Gibbs, "Try, Try Again: Making antibodies more useful by making them more human," <i>Scientific American</i> :101-103 (July 1993).

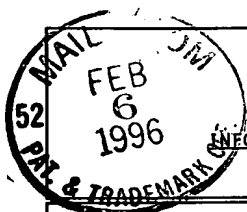
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TC	AR	8	Hamann, A. <i>et al.</i> , "Evidence For An Accessory Role Of LFA-1 In Lymphocyte-High Endothelium Interaction During Homing," <i>J. Immunol.</i> 140(3):693-699 (February 1, 1988).
TC	AS	8	Harlan, J.M. <i>et al.</i> , "Leukocyte-Endothelial Interactions," <i>Blood</i> 65(3):513-525 (March 1985).
TC	AT	8	Harris, W.J. <i>et al.</i> , "Therapeutic antibodies -- the coming of age," <i>TIBTECH</i> 11:42-44 (February 1993).

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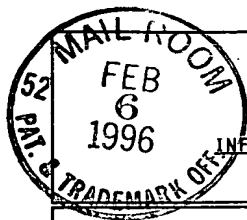
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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TC	AR	2	Haskard, D. <i>et al.</i> , "T Lymphocyte Adhesion To Endothelial Cells: Mechanisms Demonstrated By Anti-LFA-1 Monoclonal Antibodies," <i>J. Immunol.</i> 137:2901-2906 (November 1986).
TC	AS	2	Haug, C.E. <i>et al.</i> , "A Phase I Trial Of Immunosuppression With Anti-ICAM-1 (CD54) mAb In Renal Allograft Recipients," <i>Transplantation</i> 55(4):766-773 (April 1993).
TC	AT	2	Hildreth, J.E.K. <i>et al.</i> , "Involvement of a Leukocyte Adhesion Receptor (LFA-1) in HIV-Induced Syncytium Formation," <i>Science</i> 244:1075-1078 (June 2, 1989).

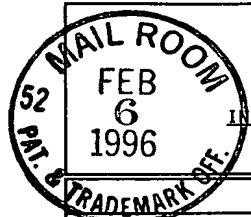
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TC	AR	10	Hoffman, P.M. <i>et al.</i> , "Neurologic Diseases," in: <i>Basic &amp; Clinical Immunology</i> , Sixth Edition, Stites, D.P. <i>et al.</i> (eds.), Norwalk, CT: Appleton & Lange, pp. 598-602 (1987).
TC	AS	10	Jonker, M. <i>et al.</i> , "Successful Treatment of EAE in Rhesus Monkeys with MHC Class II Specific Monoclonal Antibodies," <i>J. Autoimmunity</i> 1:399-414 (1988).
TC	AT	10	Kageshita, T. <i>et al.</i> , "Differential Expression of Melanoma Associated Antigens in Acral Lentiginous Melanoma and in Nodular Melanoma Lesions," <i>Cancer Res.</i> 51:1726-1732 (March 15, 1991).

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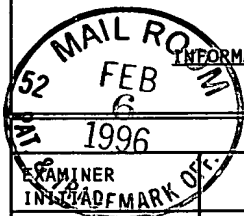
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TC	AR	11	Kavanaugh, A.F. <i>et al.</i> , "Treatment Of Refractory Rheumatoid Arthritis With An Anti-CD54 (Intercellular Adhesion Molecule-1, ICAM-1) Monoclonal Antibody," <i>Abstr. Proc. Amer. Coll. Rheumatology</i> (1992).				
TC	AS	11	Keizer, G.D. <i>et al.</i> , "Biochemical and functional characteristics of the human leukocyte membrane antigen family LFA-1, Mo-1 and p150,95," <i>Eur. J. Immunol.</i> 15:1142-1147 (1985).				
TC	AT	11	Kishimoto, T.K. <i>et al.</i> , "The Leukocyte Integrins," <i>Adv. Immunol.</i> 46:149-182 (1989).				
EXAMINER <i>Ther. Carter</i>				MO 12/11/00		DATE CONSIDERED 7/11/97	
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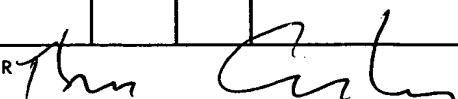
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TC	AR	12	Kohl, S. et al., "Defective Natural Killer Cytotoxicity And Polymorphonuclear Leukocyte Antibody-Dependent Cellular Cytotoxicity In Patients With LFA-1/OKM-1 Deficiency," <i>J. Immunol.</i> 133(6):2972-2978 (December 1984).
TC	AS	12	Krensky, A.M. et al., "LFA-1, LFA-2 and LFA-3 Antigens Are Involved in CTL-Target Conjugation," <i>J. Immunol.</i> 132(5):2180-2182 (May 1984).
TC	AT	12	Makgoba, M.W. et al., "Functional evidence that intercellular adhesion molecule-1 (ICAM-1) is a ligand for LFA-1-dependent adhesion in T cell-mediated cytotoxicity," <i>Eur. J. Immunol.</i> 18:637-640 (1988).
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TC	AR	13	Makgoba, M.W. et al., "ICAM-1, a ligand for LFA-1-dependent adhesion of B,T and myeloid cells," <i>Nature</i> 331:86-88 (January 7, 1988).
TC	AS	13	Makgoba, M.W. et al., "The CD2-LFA-3 and LFA-1-ICAM pathways: relevance to T-cell recognition," <i>Immunol. Today</i> 10:417-422 (1989).
TC	AT	13	Marlin, S.D. et al., "Purified Intercellular Adhesion Molecule-1 (ICAM-1) Is a Ligand for Lymphocyte Function-Associated Antigen 1 (LFA-1)," <i>Cell</i> 51:813-819 (December 4, 1987).

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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	APPLICANTS SPRINGER <i>et al.</i>	
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
TC	AR	14	Mayes, J.T. <i>et al.</i> , "Reexposure To OKT3 In Renal Allograft Recipients," <i>Transplantation</i> 45(2):349-353 (February 1988).
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EXAMINER	<i>Ther C. L.</i>	PG 12/11/00	DATE CONSIDERED	4/11/97
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.				



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	AM						Yes No
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TC	AR	16	"Orthoclone OKT," <i>Physician's Desk Reference</i> , pp. 1702-1703 (1993).
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TC	AT	16	Pals, S.T. <i>et al.</i> , "Evidence That Leukocyte Function-Associated Antigen-1 Is Involved In Recirculation And Homing Of Human Lymphocytes Via High Endothelial Venules," <i>J. Immunol.</i> 140(6):1851-1853 (March 15, 1988).

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TC	AR	17	Prober, J.S. et al., "Overlapping Patterns Of Activation Of Human Endothelial Cells By Interleukin 1, Tumor Necrosis Factor, And Immune Interferon," <i>J. Immunol.</i> 137(6):1893-1896 (September 15, 1986).		
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TC	AR	18	Sanchez-Madrid, F. <i>et al.</i> , "Mapping of Antigenic And Functional Epitopes On The $\alpha$ - and $\beta$ -Subunits Of Two Related Mouse Glycoproteins Involved In Cell Interactions, LFA-1 and MAC-1," <i>J. Exp. Med.</i> 158:586-602 (August 1983).
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EXAMINER	Thomas Coughlin	DATE CONSIDERED	4/11/97
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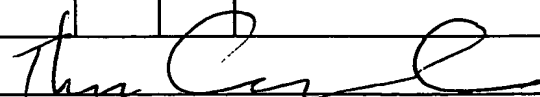
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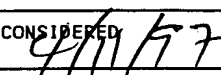
TC	AR	19	Springer, T. <i>et al.</i> , "Mac-1: a macrophage differentiation antigen identified by monoclonal antibody," <i>Eur. J. Immunol.</i> 9:301-306 (1979).
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AL						Yes No
AM						Yes No
AN						Yes No
AO						Yes No
AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)						
TC	AR	20	Springer, T.A. <i>et al.</i> , "The Lymphocyte Function-Associated LFA-1, CD2, and LFA-3 Molecules: Cell Adhesion Receptors of the Immune System," <i>Ann. Rev. Immunol.</i> 5:223-252 (1987).			
TC	AS	20	Staunton, D.E. <i>et al.</i> , "Functional cloning of ICAM-2, a cell adhesion ligand for LFA-1 homologous to ICAM-1," <i>Nature</i> 339:61-64 (May 4, 1989).			
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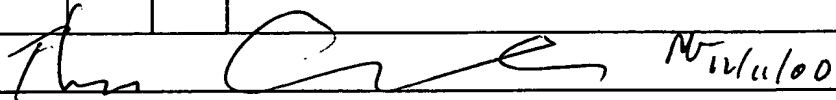
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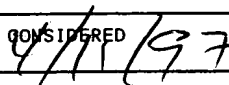
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TC	AR	21	Theofilopoulos, A.N., "Autoimmunity," in: <i>Basic &amp; Clinical Immunology</i> , Sixth Edition, Stites, D.P. <i>et al.</i> (eds.), Norwalk, CT: Appleton & Lange, pp. 128-132 (1987).
TC	AS	21	Tolkoff-Rubin, N. <i>et al.</i> , "Immunosuppression With Anti-ICAM-1 (CD54) MAB In Renal Allograft Recipients," <i>J. Amer. Soc. Nephrol.</i> 2(3):820, Abstract No. 2P (September 1991).
TC	AT	21	Tolosa, E. <i>et al.</i> , "Expression of Intercellular Adhesion Molecule-1 in Thyroid Follicular Cells in Autoimmune, Non-autoimmune and Neoplastic Diseases of the Thyroid Gland: Discordance with HLA," <i>J. Autoimmunity</i> 5:107-118 (1992).

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## INFORMATION DISCLOSURE STATEMENT

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TC	AR	22	Tötterman, T.H. <i>et al.</i> , "Immunologic Diagnosis Of Kidney Rejection Using FACS Analysis Of Graft-Infiltrating Functional And Activated T And NK Cell Subsets," <i>Transplantation</i> 47(5):817-823 (May 1989).
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EXAMINER	<i>[Signature]</i>	DATE CONSIDERED	4/11/97
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